I CLAIM:

- 1. An assembly for electrically interconnecting two
 2 parts relatively rotatable about an axis, the assembly
 3 comprising:
- an elongated multiconductor flat ribbon having a pair
 of ends and wound in a spiral centered on the axis, one of the
 ends being secured to one of the parts and the other of the ends
 being secured to the other part.
- 2. The electrical connecting assembly defined in claim
 wherein the one end is secured to the one part inside the
 spiral and the other end is outside the spiral.
- 3. The electrical connecting assembly defined in claim
 1 wherein the ribbon has a width dimension extending generally
 2 parallel to the axis.
- 4. The electrical connecting assembly defined in claim
 3 wherein the flat ribbon is comprised of a flat elongated tape
 and a plurality of parallel conductive traces on the tape
 extending between the ends.

- 5. The electrical connecting assembly defined in claim
 4 wherein the traces are flat strips with a width dimension
 parallel to the width dimension of the tape.
- 6. The electrical connecting assembly defined in claim
 4 wherein the tape is nonconductive.
- 7. The electrical connecting assembly defined in claim
 4 wherein the tape is flexible.
- 8. The electrical connecting assembly defined in claim
 4 wherein the spiral is generally cylindrical and centered on the
 axis.
- 9. The electrical connecting assembly defined in claim 4, further comprising
- respective rigid circuit boards at the ends having contact pads connected to the traces.

- 10. The electrical connecting assembly defined in claim 4 wherein the tape is L-shaped and has one leg forming the spiral and an other leg extending axially from the spiral.
- 11. The electrical connecting assembly defined in
 claim 10 wherein the other leg is formed with a loop projecting
 transversely of the axis.
- 12. The electrical connecting assembly defined in claim 1 wherein the one part is a bonding head.